

16. (Twice Amended) The information storage medium according to claim 12,
said supplied-data comprising at least one of image data, an object for
generating an image, an object for controlling the generation of an image, an object for
displaying an image, and an object for controlling displaying of an image.

17. (Twice Amended) The information storage medium according to claim 12,
said transmission line comprising an IEEE-1394 bus.

REMARKS

Claims 1-17 are pending. By this Amendment, claims 1-17 are amended for further clarity. These amendments are merely made to comply with standard U.S. Patent and Trademark Office practice. The amendments were not made based upon a substantial reason related to patentability. Thus, the amendments do not narrow the scope of the claims or otherwise create estoppels, pursuant to Festo Corp. v. Shoketsu Kinzoku Kogyo Kabushiki Co., Ltd., 234 F.3d 558, 56 USPQ2d 1865. No new matter is added.

The attached Appendix includes marked-up copies of each rewritten paragraph (37 C.F.R. 1.121(b)(iii)) and claim (37 C.F.R. 1.121(c)(ii)).

In view of the foregoing amendments and remarks, Applicants submit that this application is in condition for initial examination. Favorable reconsideration and prompt allowance of claims 1-17 are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in better condition for allowance, the Examiner is invited to contact Applicants' undersigned representative at the telephone number listed below.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

Eric D. Morehouse
Registration No. 38,565

JAO:EDM/gam

Attachments:

Abstract
Appendix

Date: March 30, 2001

OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>
--



APPENDIX

Changes to Specification

The following are marked-up versions of the amended paragraphs:

Page 1, lines 1-5:

DESCRIPTION

MEETING SYSTEM AND INFORMATION STORAGE MEDIUM

BACKGROUND OF THE INVENTION

~~Technical Field~~1. Field of the Invention

Page 1, line 9:

~~Background Art~~2. Description of Related Art

Page 1, lines 15-17:

SUMMARY OF THE INVENTION

It is desirable that devices ~~can be~~be connected as freely as possible to one another without concern for the types of PCs to be connected, the types of OSs, or other factors. That is, it is desired to improve the interconnectivity among devices.

Page 1, line 30-page 2, line 6:

In the case where only presentation data, which has been generated using application software, is played back, it is rather easy to play back a particular specified part. However, in this case, it is impossible to play back an actual scene of a presentation. For example, it is impossible to reproduce the movement of a pointing stick.

~~{delete extra blank line}~~

~~Disclosure of Invention~~

In view of the above, a first object of the present invention is to realize a meeting system capable of improving interconnectivity of apparatus.

Page 2, lines 10-18:

In order to achieve the above objects, the present invention provides a meeting system in which supplied-data convertible by a virtual machine is transmitted from data supply apparatuses via a transmission line, the meeting system including a meeting data generating apparatus for generating meeting data in which the supplied-data is reflected, wherein the meeting data generating apparatus includes: a communication interface section for receiving the supplied-data; generating means (generation unit) for generating the meeting data; and converting means (conversion unit) including a virtual machine for converting the received supplied-data into a data format which allows the generating means to generate the meeting data.

Page 3, lines 12-16:

Preferably, the supplied-data includes at least one of image data for displaying the meeting data and control data for controlling the displaying of the meeting data, and the meeting data generating apparatus includes: means for displaying the meeting data (display unit) in accordance with the image data; and means for controlling the displaying of the meeting data (control unit) in accordance with the control data.

Page 3, lines 21-28:

Preferably, the meeting data generating apparatus includes: data control means (data control unit) for storing the supplied-data, converted by the converting means, while managing the supplied-data in units of data associated with respective said data supply apparatuses into storage means (storage unit) in which particular presentation data is stored, and reading meeting data including at least a part of the supplied-data and the presentation data from the storage means in accordance with a reproduction command indicating

reproduction in units of data associated with the processing apparatus, and reproducing means (reproduction unit) for reproducing the meeting data read.

Page 4, lines 12-17:

Furthermore, the meeting system preferably further includes image-recording means (image recording unit) for recording an image of a meeting scene, wherein the data control means stores image data obtained as a result of the recording of the meeting scene in the storage means as a part of the meeting data, in predetermined units of data, and the reproducing means preferably reproduces the meeting data stored in the storage means, in predetermined units of data in accordance with the reproduction command.

Page 5, line 20-page 6, line 3:

The present invention also provides a meeting system in which supplied-data in a common format interpretable by a virtual machine is transmitted and received among a plurality of processing apparatuses interconnected via a transmission line and meeting data is generated, wherein at least one of the plurality of processing apparatuses is a requesting apparatus for requesting another processing apparatus to provide a particular service, at least one of the plurality of processing apparatuses is a providing apparatus for providing the particular service to the requesting apparatus, the requesting apparatus includes: supplied-data generating means (supplied-data generation unit) for generating supplied-data indicating a request for the particular service and converting the supplied-data into the common format; and transmitting means (transmitting unit) for transmitting the converted supplied-data to another processing apparatus, the providing apparatus includes: converting means including the virtual machine, for receiving supplied-data indicating a request for a service from the another processing apparatus and converting the supplied-data using the virtual machine; determining means (determining unit) for determining, on the basis of the converted supplied-

data, whether or not it is possible to provide the service; and serving providing means
(serving providing unit) for, if it is possible to provide the service, providing the service.

Page 9, line 17:

~~Brief Description of the Drawings~~

BRIEF DESCRIPTION OF THE DRAWINGS

Page 10, lines 5-9:

~~Figure 11 is a~~ Figures 11(A)-(B) are schematic diagrams illustrating examples of the manner in which an image is displayed by means of distributed processing, wherein Figure 11(A) illustrates an example in which an image is displayed using only one liquid crystal projector and Figure 11(B) illustrates an example in which an image is displayed using four liquid crystal projectors.

Page 10, lines 13-16:

~~Figure 13 is a~~ Figures 13(A)-(B) are schematic diagrams illustrating communication methods using virtual machines, wherein Figure 13(A) illustrates a conventional communication method and Figure 13(B) illustrates a communication method according to the present embodiment.

Page 10, line 23:

~~Best Mode for Carrying Out the Invention~~

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Page 15, lines 5-11:

In the present embodiment, as shown in Figure 4, the presentation data 1420 includes labels attached to respective units, such as Chapter 1, Section 1, Page 1, and so on. The [IMAGE] tags or the like in the presentation data 1420 includes a pointer indicating the address of image data of additional data thereby allowing any desired part of the meeting

data ~~42-44~~ to be read by specifying the chapter number, the section number, and the page number. In Figure 4, arrows, except for those used as symbols, indicates examples of pointers and locations pointed to by the pointers.

Page 18, lines 25-28:

If the log-in is accepted, it becomes possible for the tablet 410 to access the storage unit 40, serving as a common memory space, of the liquid crystal projector, until the tablet 410 performs a logging out process through the IEEE-1394 ~~but~~ bus class driver.

Page 22, lines 7-11:

In the liquid crystal projector 202, the communication interface unit 32 receives the transmitted supplied-data, and the control unit ~~94-92~~ performs a transfer control operation. The transmitted supplied-data is converted by the virtual machine 500 into a data format which allows generation of meeting data, and the generation unit 12 generates meeting data.

Page 29, line 30-page 30, line 2:

~~Figure 11 illustrates~~ Figures 11(A)-(B) illustrate an example of a manner in which an image is displayed by means of distributed processing, wherein Figure 11(A) illustrates an example in which an image is displayed using only one liquid crystal projector and Figure 11(B) illustrates an example in which an image is displayed using four liquid crystal projectors.

Page 30, lines 30-33:

~~Figure 13 is a~~ Figures 13(A)-(B) are schematic diagrams illustrating a communication method using a virtual machine 500, wherein Figure 13(A) illustrates a conventional communication method and Figure 13(B) illustrates a communication method according to the present embodiment.

Page 31, lines 19-26:

In the case where two liquid crystal projectors 200-5 and 200-6 are connected to each other via an IEEE-802.3 bus ~~402-192~~ as shown in Figure 13(A), a connection between application layer programs 12-5 and 12-6 is established wherein each application layer program cares about the other application layer program. If the liquid crystal projector 200-5, which is a first projector which starts interpretation of primitive presentation data, detects, in a statement of a program, a part which is out of the allowable display range, the liquid crystal projector 200-5 attempts to pass that part to the liquid crystal projector 200-6.

Page 33, line 29-page 34, line 2:

The liquid crystal projector ~~200-1~~200-1 includes a conversion unit 50-1 including a virtual machine 500-1 for converting supplied-data received from another liquid crystal projector 200-2 or the like serving as a data supply apparatus into a data format which allows generation or reproduction, and a communication interface unit 30-1 for receiving, from the input device 400, supplied-data which is convertible by the conversion unit 50-1.

Page 34, lines 3-9:

The liquid crystal projector 200-1 also includes a generation unit 10-1 for generating meeting data on the basis of the supplied-data converted by the conversion unit 50-1, a control unit 90-1 for storing the generated meeting data in a storage unit 40-1 while managing the generated meeting data in predetermined units of data and for each of other liquid crystal projectors 200, and for reading meeting data in predetermined units of data associated with each of the respective other liquid crystal projectors 200, and a reproduction unit 20-1 for reproducing the meeting data read.

Page 34, lines 10-12:

The storage unit 40-1 also stores the management table 42 and other data used by the control unit 90-1, in addition to the meeting data 44 including presentation data and received supplied-data.

Page 34, lines 13-14:

The storage unit 40-1 is accessible by the other liquid crystal projectors 200 via the communication unit 30-1.

Page 34, lines 15-16:

The virtual machine 500-1 according to the present embodiment is described below.

Page 39, lines 13-14:

The interconnectivity described above can be improved by forming the stored information ~~1400~~ 1410 in the manner described below.

Page 40, lines 26-32:

Furthermore, it is preferable that the stored information 1410 include information for recording images of a meeting scene, that the storing information include information for storing the supplied data including the recorded image data into the storage unit ~~1410~~ 1240 in particular units of data, and that the reproducing information include information for reproducing, in response to the reproduction command, the supplied data including the recorded image data stored in the storage unit ~~1410~~ 1240 in particular units of data.

Changes to Claims:

The following are marked-up versions of the amended claims:

1. (Amended) A meeting system in which supplied-data convertible by a virtual machine is transmitted from a data supply apparatuses via a transmission line, said meeting system ~~including~~ comprising a meeting data generating apparatus that generates ~~for generating~~ meeting data in which said supplied-data is reflected, ~~wherein~~

said meeting data generating apparatus ~~includes~~ comprising:

a communication interface section ~~for receiving~~ that receives said supplied-data;

~~generating means for generating~~ a generation unit that generates said meeting data; and

~~converting means~~ a conversion unit including a virtual machine ~~for converting~~ that converts the received supplied-data into a data format which allows said ~~generating means~~ generation unit to generate said meeting data.

2. (Amended) The meeting system according to claim 1, ~~wherein~~ said data supply apparatus ~~is~~ being a server device, and said supplied-data ~~includes~~ comprising a component object serving as a part of a program for generating said meeting data, and

said ~~generating means~~ generates generation unit generating said program for generating meeting data in accordance with the received component object and ~~generates~~ generating said meeting data using said program.

3. (Twice Amended) The meeting system according to claim 1, ~~wherein~~
said supplied-data ~~includes~~ comprising at least one of image data for
displaying said meeting data and control data for controlling the displaying of said meeting
data,

said meeting data generating apparatus ~~includes~~ further comprising:

means for displaying a display unit that displays said meeting data in
accordance with said image data; and

means for controlling the displaying a control unit that controls the
displaying of said meeting data in accordance with said control data.
4. (Twice Amended) The meeting system according to claim 1, ~~wherein~~
said meeting data generating apparatus ~~includes~~ further comprising:

a data control unit that stores ~~means for storing~~ the supplied-data, converted by
said conversion unit, converting means, while managing the supplied-data in units of data
associated with respective ~~said~~ data supply apparatuses into a storage unit ~~means~~ in which
particular presentation data is stored, and reading meeting data including at least a part of said
supplied-data and said presentation data from said storage ~~means~~ unit in accordance with a
reproduction command indicating reproduction in units of data associated with said
processing apparatus, and

~~reproducing means for reproducing~~ a reproduction unit that reproduces the
meeting data read.
5. (Amended) The meeting system according to claim 4, ~~wherein~~
said ~~reproducing apparatus reproduces~~ reproduction unit reproducing said
meeting data stored in said storage unit, means, in units of data associated with said data
supply apparatus in accordance with said reproduction command.

6. (Twice Amended) The meeting system according to claim 4, further ~~comprising~~including an image-recording means for recording a unit that records an image of a meeting scene,

~~wherein~~ said data control ~~means stores a unit storing~~ image data obtained as a result of ~~the a~~ recording of the meeting scene in said storage ~~means unit~~ as a part of said meeting data, in predetermined units of data, and

said ~~reproducing means reproduces a reproduction unit reproducing~~ said meeting data stored in said storage unit, ~~means~~, in predetermined units of data in accordance with said reproduction command.

7. (Twice Amended) The meeting system according to claim 31, ~~wherein~~ said meeting data generating apparatus ~~includes further comprising a data control unit that stores~~ means for storing the supplied-data, converted by said conversion unit, ~~converting means~~, while managing the supplied-data in units of data associated with respective ~~said~~ data supply apparatuses into said storage ~~means unit~~ in which particular presentation data is stored, ~~and~~

reading meeting data including at least a part of said supplied-data and said presentation data from said storage ~~means unit~~ in accordance with a reproduction command indicating reproduction in units of data associated with said processing apparatus, and

said communication interface section ~~transmits~~ transmitting the read meeting data to said data supply apparatuses.

8. (Amended) A meeting system in which supplied-data in a common format interpretable by a virtual machine is transmitted and received among a plurality of processing apparatuses interconnected via a transmission line and meeting data is generated, ~~wherein~~

at least one of said plurality of processing apparatuses ~~is being~~ a requesting apparatus for requesting another processing apparatus to provide a particular service, and

at least one of said plurality of processing apparatuses ~~is being~~ a providing apparatus for providing the particular service to said requesting apparatus,

said requesting apparatus ~~includes~~ comprising:

a supplied-data generating means for generating generation unit that generates supplied-data indicating a request for said particular service and ~~converting that converts~~ said supplied-data into said common format; and

a transmitting unit that transmits ~~means for transmitting~~ said converted supplied-data to another processing apparatus,

said providing apparatus ~~includes~~ comprising:

a conversion unit ~~converting means~~ including said virtual machine, ~~for receiving that receives~~ supplied-data indicating a request for a service from said another processing apparatus and ~~converting that converts~~ said supplied-data using said virtual machine;

a determining unit that determines, ~~means for determining,~~ on the basis of the converted supplied-data, whether or not it is possible to provide said service; and

a serving providing unit that, ~~means for,~~ if it is possible to provide said service, ~~providing provides~~ said service.

9. (Amended) A meeting system in which supplied-data in a common format interpretable by a virtual machine is transmitted and received among a plurality of processing apparatuses interconnected via network including a predetermined transmission line and meeting data is generated, ~~wherein~~ said meeting system ~~includes comprising~~ a control device for controlling said processing apparatuses, and each of said processing apparatuses ~~include~~

comprising a meeting data generating apparatus in which said virtual machine is implemented, for generating meeting data, ~~and~~ said control device ~~includes~~ comprising:

a management ~~means for managing the unit that manages~~ status of connection of said processing apparatus with said network, and

a transmission control ~~means for controlling the unit that controls~~ transmission of said supplied-data among said processing apparatuses.

10. (Twice Amended) The meeting system according to claim 91, ~~wherein~~ said meeting data generating apparatus ~~includes~~ comprising a projector.

11. (Amended) An information storage medium which is readable by a computer and which stores information for generating meeting data reflecting supplied-data received from a data supply apparatus via a transmission, said supplied-data being interpretable by a virtual machine, ~~wherein~~

said information ~~includes~~ comprising:

interpretation information including said virtual machine implemented therein, for interpreting the received supplied-data using said virtual machine; and

generation information for generating said meeting data ~~on the basis of the~~ based on an interpretation result.

12. (Amended) An information storage medium which is readable by a computer and which stores information for transmitting supplied-data to a processing apparatus via a transmission line, said processing apparatus including a virtual machine implemented therein, said supplied-data being interpretable by said virtual machine, said processing apparatus serving to process meeting data using said virtual machine, ~~wherein~~

said information ~~includes~~ comprising:

information for generating supplied-data interpretable by said virtual machine;

and

information for transmitting the generated supplied-data.

13. (Twice Amended) The information storage medium according to claim 12~~11~~,
~~wherein~~ said information ~~includes~~ further comprising:

presentation information;

storing information for storing, in a storage means unit, interpreted supplied-data including said input data transmitted from said processing apparatus including a plurality of input ~~means~~ devices, while managing said supplied-data in units of data respectively associated with ~~respective~~ said input ~~means~~ devices; and

reproduction information for reproducing meeting data, including at least a part of said input data and said presentation information, from said storage ~~means~~ unit in accordance with a reproduction command.

14. (Amended) The information storage medium according to claim 13, ~~wherein~~
said storing information ~~includes~~ comprising information for storing, in the storage ~~means~~ unit, interpreted supplied-data including said input data while managing said supplied-data in units of data associated with respective said processing apparatuses, and

said reproduction information ~~includes~~ comprising information for reproducing meeting data, including at least a part of said supplied-data and said presentation information, from said storage ~~means~~ unit in units of data associated with respective said processing apparatuses in accordance with a reproduction command.

15. (Twice Amended) The information storage medium according to claim 13,
~~wherein~~

said information ~~includes further comprising~~ information for recording an
image of a meeting scene,

said storing information ~~includes comprising~~ information for storing said
supplied-data including ~~the a~~ resultant image data in predetermined units of data, and

said reproduction information ~~includes comprising~~ information for
reproducing supplied-data including said resultant image data stored in said storage ~~means~~
unit in said predetermined units of data in accordance with said reproduction command.

16. (Twice Amended) The information storage medium according to claim 1244,
~~wherein~~

said supplied-data ~~includes comprising~~ at least one of image data, an object for
generating an image, an object for controlling the generation of an image, an object for
displaying an image, and an object for controlling ~~the~~ displaying of an image.

17. (Twice Amended) The information storage medium according to claim 1244,
~~wherein~~ said transmission line ~~comprises comprising~~ an IEEE-1394 bus.



ABSTRACT OF THE DISCLOSURE

A meeting system, in which supplied-data convertible by a virtual machine is transmitted from a data supply apparatus via a transmission line, includes a meeting data generating apparatus for generating meeting data in which the supplied-data is reflected. The meeting data generating apparatus includes a communication interface section for receiving the supplied-data, a generation unit for generating the meeting data, and a conversion unit including a virtual machine for converting the received supplied-data into a data format which allows the generation unit to generate the meeting data.